MAR. -22' 04 (MON) 18:16 ALSTON & BIRD

TEL:9198622260

P. 027

In re:

Mahajan et al.. 09/954,950

Appl. No. Filed

September 18, 2001

APPENDIX TAB 3

```
GAP of: 1285AP003238MLH1aa check: 4284 from: 1 to: 715
wppRF Case 1285 Rice MLH1 protein encoded by genomic eds from GenBank
AP003238
Rice chromosome 1
Case 1285 Rice MLH1 protein encoded by genomic dds from GenBank
AP003238 Rice
chromosome 1
ANNOTATED AS MLH1 4/13/02.
join(33330, 33566,33690, 33862,33943, 34015,34105, 34239, . . .
to: 1285sid2 check: 8164 from: 1 to: 724
WPDEF Case 1285 MLH-1 SEQ ID NO:2 O. mativa
Case 1285 MLH-1 SEQ ID NO:2 O. sativa
symbol comparison table: blosum62.cmp CompCheck: 1102
BLOSUM62 amino acid substitution matrix.
Reference: Menikoff, S. and Henikoff, J. G. (1992). Amino acid
         substitution matrices from protein blocks. Proc. Natl.
Acad.
         Sci. USA 89: 10915-10919.
       Qap Weight:
                            Average Match: 2.778
     Length Weight:
                     2 Average Mismatch: -2.248
          Quality: 3639
                                  Length:
                                           725
            Ratio: 5.090
                                    Gaps:
Percent Similarity: 99.860 Percent Identity: 99.860
      Match display thresholds for the alignment(s):
                 = IDENTITY
                 ; =
                      2
                      1
1285AP003238MLH1aa x 1285sid2 March 9, 2004 15:35 ...
     1 MORPSPROGGCAGEPPRIRRLEESVVNRIAAGEVIQRPSSAVKELIENSL 50
       1 MDEPSPRGGGCAGEPPRIRRLEBSVVNRIAAGEVIORPSBAVKELIENSL 50
     51 DAGASSVSVAVKDGGLKLIOVSDDGHGIRFEDLAILCERHTTSKLSAYED 100
       51 DAGASSVSVAVKDGGLKLIOVSDDGHGIRFEDLAILCERHTTSKLSAYED 100
    101 LQTIKSMGFRGEALASMTYVGHVTVTTITEGQLHGYRVSYRPGVMENEPK 150
       101 LOTIKSMGFROBALASMTÝVCHVTVTTÍTECOLHGÝRVSÝROGVMENBEK 150
    151 FCANVKOTQVMVENUFYNMVNRKKTUQNSNDDYPKIVDFISRFAVHHINV 200
       15) PCAAVKOTOVMVENLFYNMVARKKTLONSNODYPKIVDFISRFAVHHINV 200
    201 TFSCRKHGANRADVHSASTSSRLDAIRSVYGASVVRDLIEIKVSYEDAAD 250
        201 Třscrkhdankadvhsastsékldalksvýdasvykdlielkvsýedaad 250
```

	SIFKMDGYISNANYVAKKITMILFINDRLVDCTALKRATEFVYSATLPQA	
251	\$1FKMDGY19NANYVAKKTTMILFINDRLVDCTALKRATEFVYSATLPQA	300
301	SKPFTYMSIHLPSEHVDVNIHPTKKEVSLLNQERIIETIRNAIEEKLMNS	350
301	SKPFIYMSIHLDSEHVDVNIHPTKKEVSLLNQBRIIETIRNAIEEKLMNS	350
357.	NT:TRIFQTQALNLSGIAQANPQKDKVSBASMGSGTKSQKIPVSQMVRTDP	400
351	NTTRTFQTQALNLSGIAQANPQKOKYSEASMOSOTKSQKIPVSQMVRTDP	400
401	RNPSGRLHTYWHGQSSNLEKKFDLVSVRNVVRSRRNQKDAGDLGGRHELL	450
401	RNPSGRLHTYWHGQSSNLEKKFDLVSVRNVVRSRRNQKDAGDLSSRHELL	450
451	VEIDSSFHPGLLDIVKNCTYVCLADEAFALIQHNTRLYLVNVVN1SKELM	500
451	VEIDSSFHPGLLDIVKNCTYVGLADEAFALIQHNTRLYLVNVVNISKELM	500
501	YQQALCRFGNFNAIQLSEPAPLQELLVMALKDDELMBDEKDDEKLEIAEV	550
501	YQQALCRFGNFNATQLSEPAPLQELLVMALKDDELMSDEKDDEKLETARV	550
551	NTEILKENAEMINEYFSIHIDQDGKLTRLPVVLDQYTPDMDRLPEFVLAL	600
551	NTEILKENAEMINEYFSIHIDQDGKLTRLPVVLDQYTPDMDRLPEFVLAL	600
601	GNDVTWDDEKECFRTVASAVGNPYALHFPILPNPSGNGIHLYKKNRDSMA	650
601.		650
651.	DEHAENDLISDENDVDQELLAEAFAAWAQREWTIQHVLFPSMRLFLKPPK	700
651	DEHAENDLISDENDVPQCLLAEAEAAWAQREWTIQHVLFPSMRLFLKPPK	700
701	SMATDGTFVQVPSDL 715	
701	 SMATDGTFVQVAS.LEKLYKIFERC 724	

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P. 030

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APPENDIX TAB 4